

1 / 2 1

File Name : IFN-rR-IgG-glu19-29
 Range : 1 - 1470 Mode : Normal
 Codon Table : Universal

EcoRI SmaI ← IFN γ R

```

      9      18      27      36      45      54
5' GAA TTC ATT TAA ATG ATT CTG CTG GTG GTC CTG ATG CTG TCT GCG GAG ATC GGG
   ---
       M   I   L   L   V   V   L   M   L   S   A   E   I   G

      63      72      81      90      99      108
AGT GGA GCT TTG ATG AGC ACC GAG GAT CCT AAG CCG CCC TCG GTG CCT GCG CCA
   ---
   S   G   A   L   M   S   T   E   D   P   K   P   P   S   V   P   A   P

     117      126      135      144      153      162
ACA AAT GTT CTA ATT ACG TCC TAT GAC TTG AAC CCT GTC GTA CAT TGG AAG CAC
   ---
   T   N   V   L   I   T   S   Y   D   L   N   P   V   V   H   W   K   H

     171      180      189      198      207      216
CAG AAC GTG TCG CAG GCT GCC GTC TTC ACT GTA CAG GTA AAG ATG TAT CCA GAA
   ---
   Q   N   V   S   Q   A   A   V   F   T   V   Q   V   K   M   Y   P   E

     225      234      243      252      261      270
TAC TGG ACT GAT GCC TGC ACC AAC ATT GCC CAT CAT TAT TGT AAT ATC TAC AAA
   ---
   Y   W   T   D   A   C   T   N   I   A   H   H   Y   C   N   I   Y   K

     279      288      297      306      315      324
CAC ATT TCC TAT CCT GAC TCA TCT GCC TGG GCC AGA GTT AAG GCC AAG GTT GGA
   ---
   H   I   S   Y   P   D   S   S   A   W   A   R   V   K   A   K   V   G

     333      342      351      360      369      378
CAA AGA GAA TCT GCC TAT GCG CAG TCA GAA GAG TTT ATT ATG TGC CGA AAG GGG
   ---
   Q   R   E   S   A   Y   A   Q   S   E   E   F   I   M   C   R   K   G

     387      396      405      414      423      432
AAG GTT GGA CCG CCT GGC CTG GAC ATC GGA AGG AAG GAA GAT CAG CTG ATT GTC
   ---
   K   V   G   P   P   G   L   D   I   G   R   K   E   D   Q   L   I   V

     441      450      459      468      477      486
CAC ATA TTT CAC CCT AAG GTC AAT GTG AGT CAG GAA ACC ATG TTT GGT GAC GGA
   ---
   H   I   F   H   P   K   V   N   V   S   Q   E   T   M   F   G   D   G

     495      504      513      522      531      540
AAT ACC TGT TAC ACA TTC GAC TAC ACT GTG TTT GTG AAA CAT TAC AGG AGT GGG
   ---
   N   T   C   Y   T   F   D   Y   T   V   F   V   K   H   Y   R   S   G

```

Fig. 1

2/21

549	558	567	576	585	594
GAG ATC CTA CAT ACA GAA CAT AGC	GTC CTA AAA GAA GAT TGT AGC GAA ACT CTG				
---	---	---	---	---	---
E I L H T E H S V L K E D C S E T L					
603	612	621	630	639	648
TGT GAG TTA AAC ATC TCA GTG TCC ACG CTG AAT TCC AAT TAC TGT GTT TCA GTA					
---	---	---	---	---	---
C E L N I S V S T L N S N Y C V S V					
657	666	675	684	693	702
GTT GGA AAG TCG TCT TTC TGG CAA GTT AAT ACA GAA ACA TCA AAA GAC GCC TGT					
---	---	---	---	---	---
V G K S S F W Q V N T E T S K D A C					
IFN γ R \rightarrow NotI \leftarrow IgG					
711	720	729	738	747	756
ATC CCC TTT CTC CAT GAT GAC AGA GAA GAA GCG GCC GCC GTG CCC AGA AAC TGT					
---	---	---	---	---	---
I P F L H D D R E E A A A V P R N C					
765	774	783	792	801	810
GGA GGT GAT TGC AAG CCT TGT ATA TGT ACA GGC TCA GAA GTA TCA TCT GTC TTC					
---	---	---	---	---	---
G G D C K P C I C T G S E V S S V F					
819	828	837	846	855	864
ATC TTC CCC CCA AAG CCC AAA GAT GTG CTC ACC ATC ACT CTG ACT CCT AAG GTC					
---	---	---	---	---	---
I F P P K P K D V L T I T L T P K V					
873	882	891	900	909	918
ACG TGT GTT GTG GTA GAC ATT AGC CAG GAC GAT CCC GAG GTC CAT TTC AGC TGG					
---	---	---	---	---	---
T C V V V D I S Q D D P E V H F S W					
927	936	945	954	963	972
TTT GTA GAT GAC GTG GAA GTC CAC ACA GCT CAG ACT CGA CCA CCA GAG GAG CAG					
---	---	---	---	---	---
F V D D V E V H T A Q T R P P E E Q					
981	990	999	1008	1017	1026
TTC AAC AGC ACT TTC CGC TCA GTC AGT GAA CTC CCC ATC CTG CAC CAG GAC TGG					
---	---	---	---	---	---
F N S T F R S V S E L P I L H Q D W					
1035	1044	1053	1062	1071	1080
CTC AAT GGC AGG ACG TTC AGA TGC AAG GTC ACC AGT GCA GCT TTC CCA TCC CCC					
---	---	---	---	---	---
L N G R T F R C K V T S A A F P S P					

Fig. 2

3/21

1089	1098	1107	1116	1125	1134
ATC GAG AAA ACC	ATC TCC AAA CCC	GAA GGC AGA ACA	CAA GTT CCG CAT	GTA TAC	
I E K T	I S K P	E G R T	Q V P H	V Y	
1143	1152	1161	1170	1179	1188
ACC ATG TCA CCT	ACC AAG GAA GAG	ATG ACC CAG AAT	GAA GTC AGT ATC	ACC TGC	
T M S P	T K E E	M T Q N	E V S I	T C	
1197	1206	1215	1224	1233	1242
ATG GTA AAA GGC	TTC TAT CCC CCA	GAC ATT TAT GTG	GAG TGG CAG ATG	AAC GGG	
M V K G	F Y P P	D I Y V	E W Q M	N G	
1251	1260	1269	1278	1287	1296
CAG CCA CAG GAA	AAC TAC AAG AAC	ACT CCA CCT ACG	ATG GAC ACA GAT	GGG AGT	
Q P Q E	N Y K N	T P P T	M D T D	G S	
1305	1314	1323	1332	1341	1350
TAC TTC CTC TAC	AGC AAG CTC AAT	GTG AAG AAG GAA	AAA TGG CAG CAG	GGA AAC	
Y F L Y	S K L N	V K K E	K W Q Q	G N	
1359	1368	1377	1386	1395	1404
ACG TTC ACG TGT	TCT GTG CTG CAT	GAA GGC CTG CAC	AAC CAC CAT ACT	GAG AAG	
T F T C	S V L H	E G L H	N H H T	E K	
IgG → ← glucagon 19-29					
1413	1422	1431	1440	1449	1458
AGT CTC TCC CAC	TCT CCG GGT AAA	GCC CAA GAT TTT	GTG CAG TGG TTG	ATG AAT	
S L S H	S P G K	A Q D F	V Q W L	M N	
→ EcoRI					
1467					
ACC TGA GAA TTC	3'				
T *					

Fig. 3

4 / 2 1

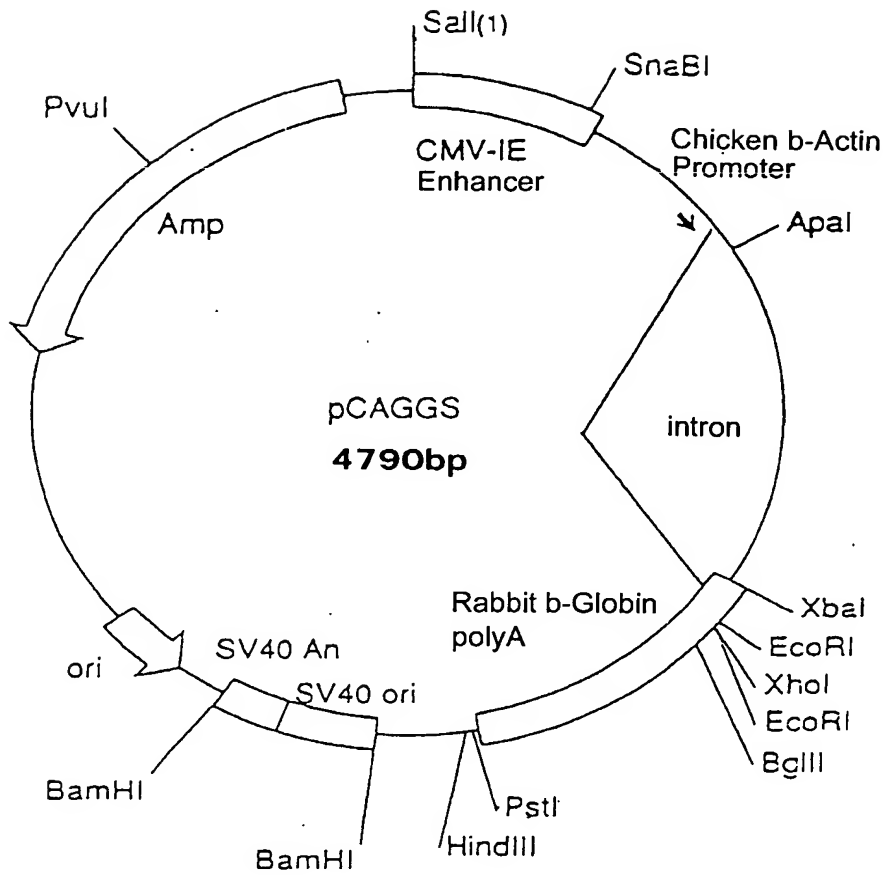


Fig. 4

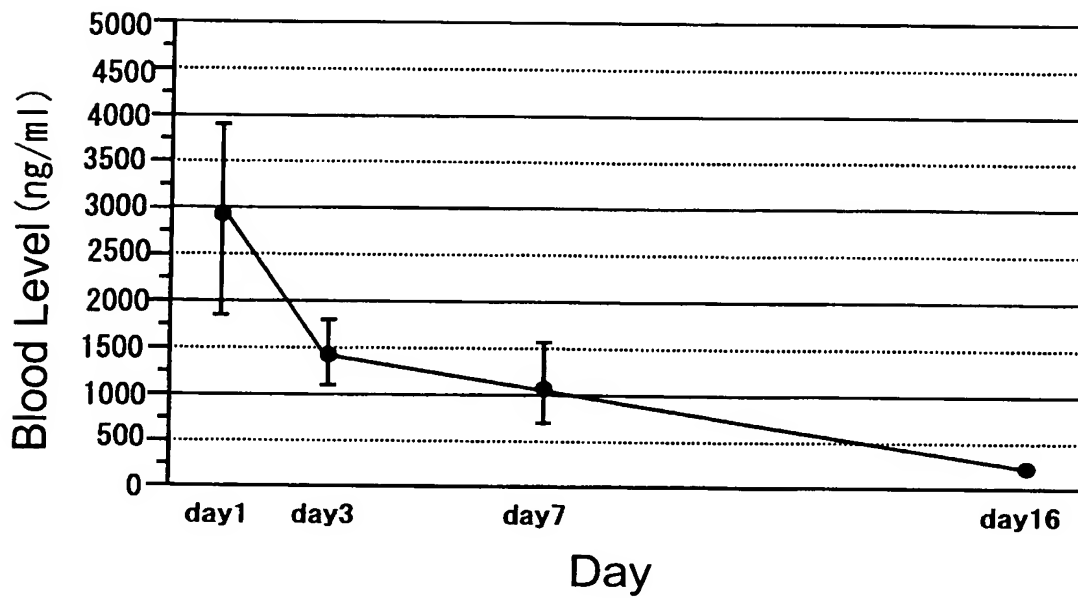


Fig. 5

5 / 2 1

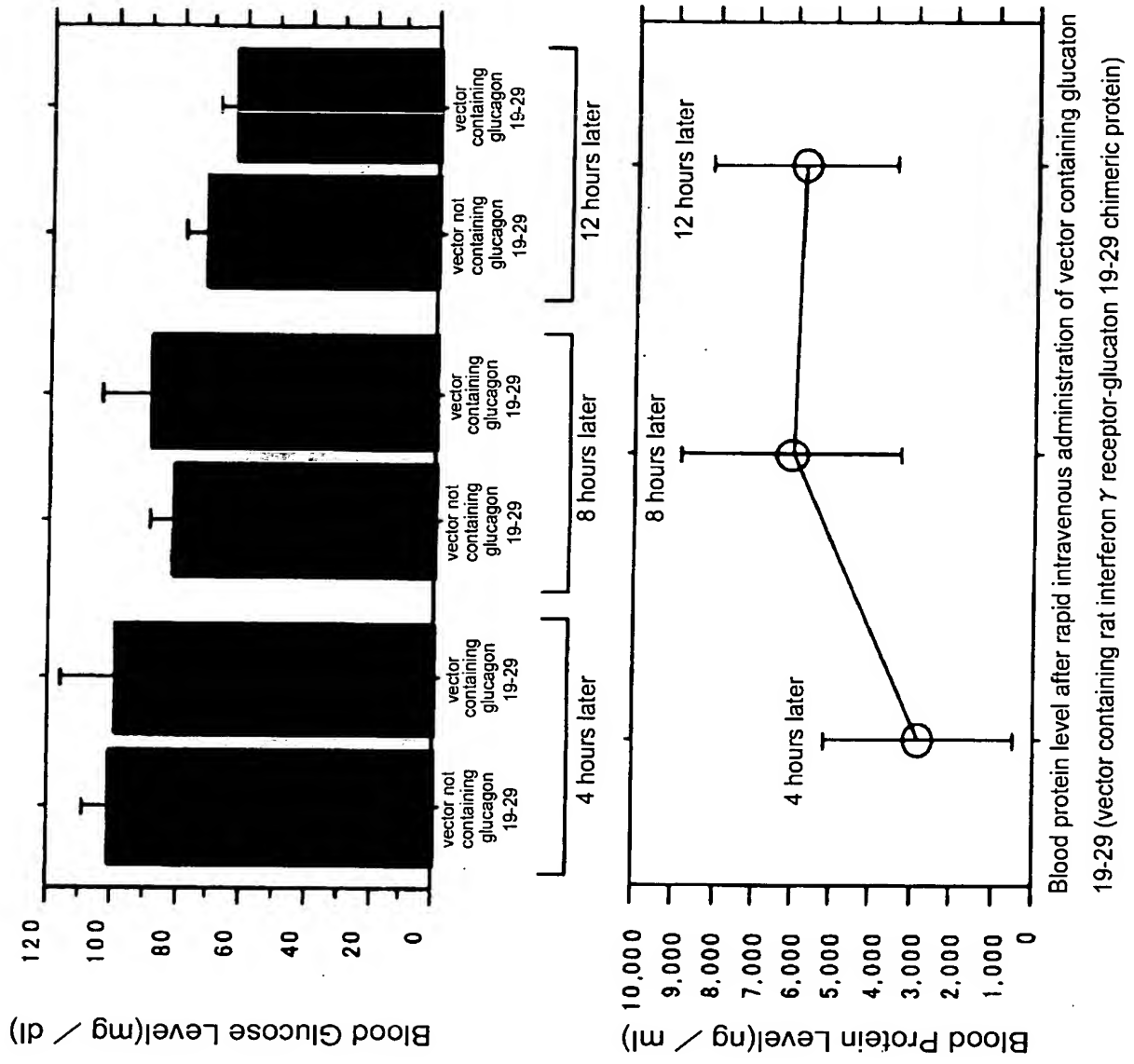


Fig. 6

6/21

File Name : CTLA4-IgG- glu19-29
 Range : 1 - 1233 Mode : Normal
 Codon Table : Universal

EcoRI			SwaI ←			CTLA4														
	9			18			27			36			45			54				
5'	GAA	TTC	ATT	TAA	ATG	GCT	TGT	CTT	GGA	CTC	CAG	AGG	TAC	AAA	ACT	CAC	CTG	CAG		
	---			---			---			---			---			---				
					M	A	C	L	G	L	Q	R	Y	K	T	H	L	Q		
	63			72			81			90			99			108				
	CTG	CCT	TCT	AGG	ACT	TGG	CCT	TTT	GGA	GTC	CTG	CTT	TCT	CTT	CTC	TTC	ATC	CCA		
	---			---			---			---			---			---				
	L	P	S	R	T	W	P	F	G	V	L	L	S	L	L	F	I	P		
	117			126			135			144			153			162				
	ATC	TTC	TCT	GAA	GCC	ATA	CAA	GTG	ACC	CAA	CCT	TCA	GTG	GTG	TTG	GCC	AGC	AGC		
	---			---			---			---			---			---				
	I	F	S	E	A	I	Q	V	T	Q	P	S	V	V	L	A	S	S		
	171			180			189			198			207			216				
	CAC	GGT	GTC	GCC	AGC	TTT	CCA	TGT	GAA	TAT	GCA	TCT	TCA	CAC	AAC	ACT	GAT	GAG		
	---			---			---			---			---			---				
	H	G	V	A	S	F	P	C	E	Y	A	S	S	H	N	T	D	E		
	225			234			243			252			261			270				
	GTC	CGG	GTG	ACG	GTG	CTG	CGG	CAG	ACA	AAT	GAC	CAA	GTG	ACA	GAG	GTC	TGT	GCC		
	---			---			---			---			---			---				
	V	R	V	T	V	L	R	Q	T	N	D	Q	V	T	E	V	C	A		
	279			288			297			306			315			324				
	ACG	ACA	TTC	ACA	GTG	AAG	AAC	ACG	TTG	GGC	TTC	CTA	GAT	GAC	CCC	TTC	TGC	AGT		
	---			---			---			---			---			---				
	T	T	F	T	V	K	N	T	L	G	F	L	D	D	P	F	C	S		
	333			342			351			360			369			378				
	GGT	ACC	TTT	AAT	GAA	AGC	AGA	GTG	AAC	CTC	ACC	ATC	CAA	GGA	CTG	AGG	GCT	GCT		
	---			---			---			---			---			---				
	G	T	F	N	E	S	R	V	N	L	T	I	Q	G	L	R	A	A		
	387			396			405			414			423			432				
	GAC	ACC	GGA	CTG	TAC	TTC	TGC	AAG	GTG	GAA	CTC	ATG	TAC	CCA	CCG	CCA	TAC	TTT		
	---			---			---			---			---			---				
	D	T	G	L	Y	F	C	K	V	E	L	M	Y	P	P	P	Y	F		
	441			450			459			468			477			486				
	GTG	GGC	ATG	GGC	AAC	GGG	ACC	CAG	ATT	TAT	GTC	ATC	GAT	CCA	GAA	CCA	TGC	CCA		
	---			---			---			---			---			---				
	V	G	M	G	N	G	T	Q	I	Y	V	I	D	P	E	P	C	P		

7 / 2 1

CTLA4 → NotI ← IgG

		495			504			513			522			531		540	
GAT	TCA	GAC	GCG	GCC	GCC	GTG	CCC	AGA	AAC	TGT	GGA	GGT	GAT	TGC	AAG	CCT	TGT
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
D	S	D	A	A	A	V	P	R	N	C	G	G	D	C	K	P	C
		549			558			567			576			585		594	
ATA	TGT	ACA	GGC	TCA	GAA	GTA	TCA	TCT	GTC	TTC	ATC	TTC	CCC	CCA	AAG	CCC	AAA
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
I	C	T	G	S	E	V	S	S	V	F	I	F	P	P	K	P	K
		603			612			621			630			639		648	
GAT	GTG	CTC	ACC	ATC	ACT	CTG	ACT	CCT	AAG	GTC	ACG	TGT	GTT	GTG	GTA	GAC	ATT
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
D	V	L	T	I	T	L	T	P	K	V	T	C	V	V	V	D	I
		657			666			675			684			693		702	
AGC	CAG	GAC	GAT	CCC	GAG	GTC	CAT	TTC	AGC	TGG	TTT	GTA	GAT	GAC	GTG	GAA	GTC
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S	Q	D	D	P	E	V	H	F	S	W	F	V	D	D	V	E	V
		711			720			729			738			747		756	
CAC	ACA	GCT	CAG	ACT	CGA	CCA	CCA	GAG	GAG	CAG	TTC	AAC	AGC	ACT	TTC	CGC	TCA
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
H	T	A	Q	T	R	P	P	E	E	Q	F	N	S	T	F	R	S
		765			774			783			792			801		810	
GTC	AGT	GAA	CTC	CCC	ATC	CTG	CAC	CAG	GAC	TGG	CTC	AAT	GGC	AGG	ACG	TTC	AGA
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
V	S	E	L	P	I	L	H	Q	D	W	L	N	G	R	T	F	R
		819			828			837			846			855		864	
TGC	AAG	GTC	ACC	AGT	GCA	GCT	TTC	CCA	TCC	CCC	ATC	GAG	AAA	ACC	ATC	TCC	AAA
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
C	K	V	T	S	A	A	F	P	S	P	I	E	K	T	I	S	K
		873			882			891			900			909		918	
CCC	GAA	GGC	AGA	ACA	CAA	GTT	CCG	CAT	GTA	TAC	ACC	ATG	TCA	CCT	ACC	AAG	GAA
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
P	E	G	R	T	Q	V	P	H	V	Y	T	M	S	P	T	K	E
		927			936			945			954			963		972	
GAG	ATG	ACC	CAG	AAT	GAA	GTC	AGT	ATC	ACC	TGC	ATG	GTA	AAA	GGC	TTC	TAT	CCC
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
E	M	T	Q	N	E	V	S	I	T	C	M	V	K	G	F	Y	P
		981			990			999			1008			1017		1026	
CCA	GAC	ATT	TAT	GTG	GAG	TGG	CAG	ATG	AAC	GGG	CAG	CCA	CAG	GAA	AAC	TAC	AAG
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
P	D	I	Y	V	E	W	Q	M	N	G	Q	P	Q	E	N	Y	K

Fig. 8

8 / 2 1

1035	1044	1053	1062	1071	1080
AAC ACT CCA CCT	ACG ATG GAC ACA	GAT GGG AGT TAC	TTC CTC TAC AGC	AAG CTC	
N T P P	T M D T	D G S Y	F L Y S	K L	
1089	1098	1107	1116	1125	1134
AAT GTG AAG AAG	GAA AAA TGG CAG	CAG GGA AAC ACG	TTC ACG TGT TCT	GTG CTG	
N V K K	E K W Q	Q G N T	F T C S	V L	
IgG					
1143	1152	1161	1170	1179	1188
CAT GAA GGC CTG	CAC AAC CAC CAT	ACT GAG AAG AGT	CTC TCC CAC TCT	CCG GGT	
H E G L	H N H H	T E K S	L S H S	P G	
<div> <div>→</div> <div>←</div> <div>glucagon 19-29</div> <div>→</div> <div>EcoRI</div> </div>					
1197	1206	1215	1224	1233	
AAA GCC CAA GAT	TTT GTG CAG TGG	TTG ATG AAT ACC	TGA GAA TTC	3'	
K A Q D	F V Q W	L M N T	*		

Fig. 9

9 / 21

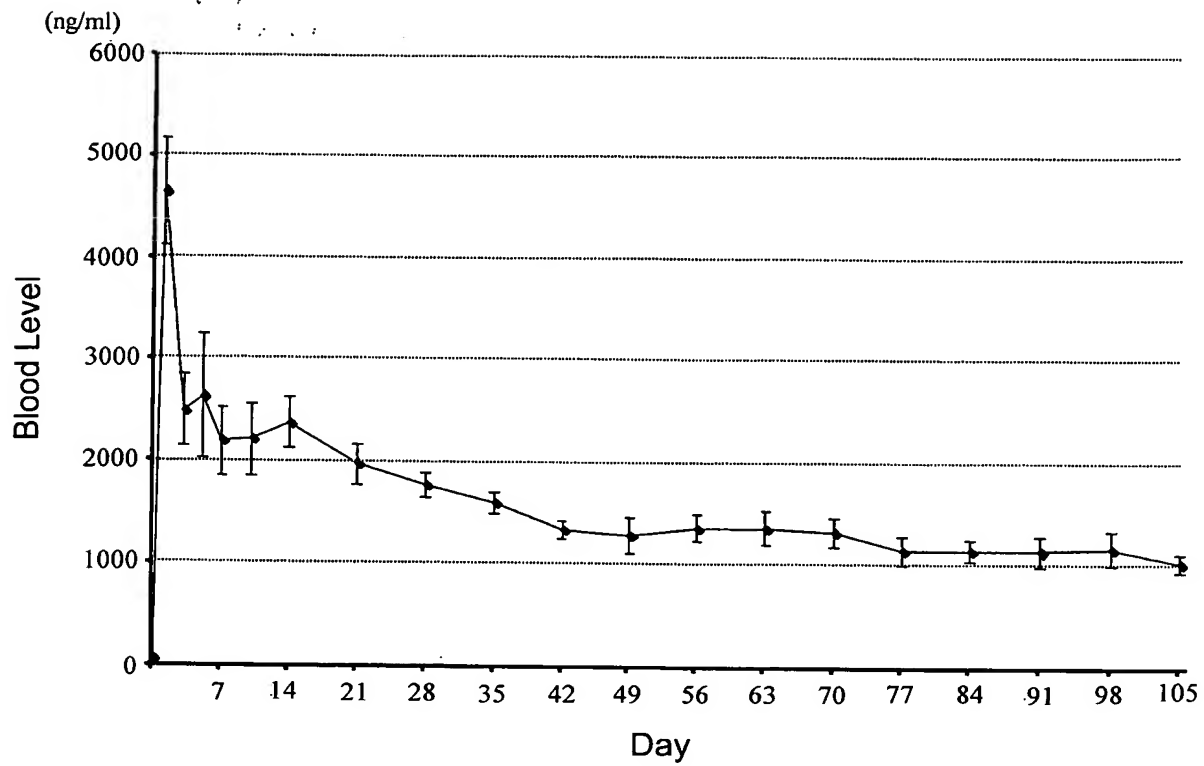


Fig. 10

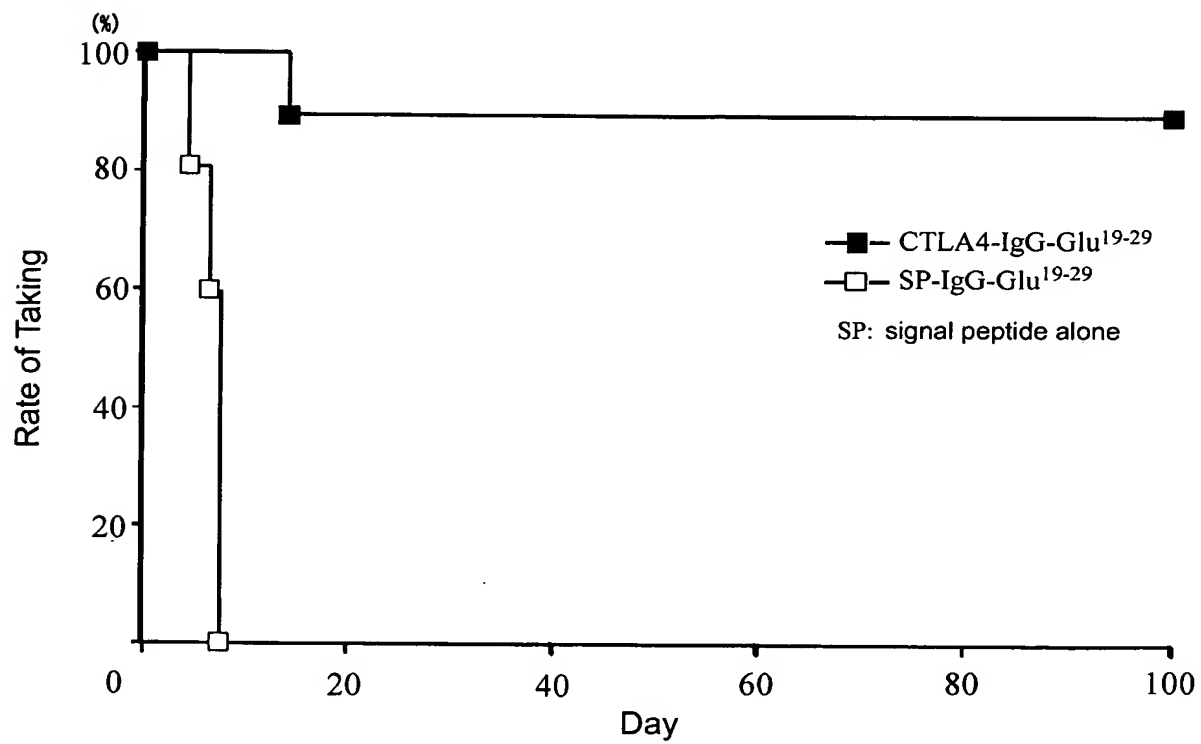


Fig. 11

10/21

File Name : IL13-IgG-glu19-29
 Range : 1 - 1143 Mode : Normal
 Codon Table : Universal

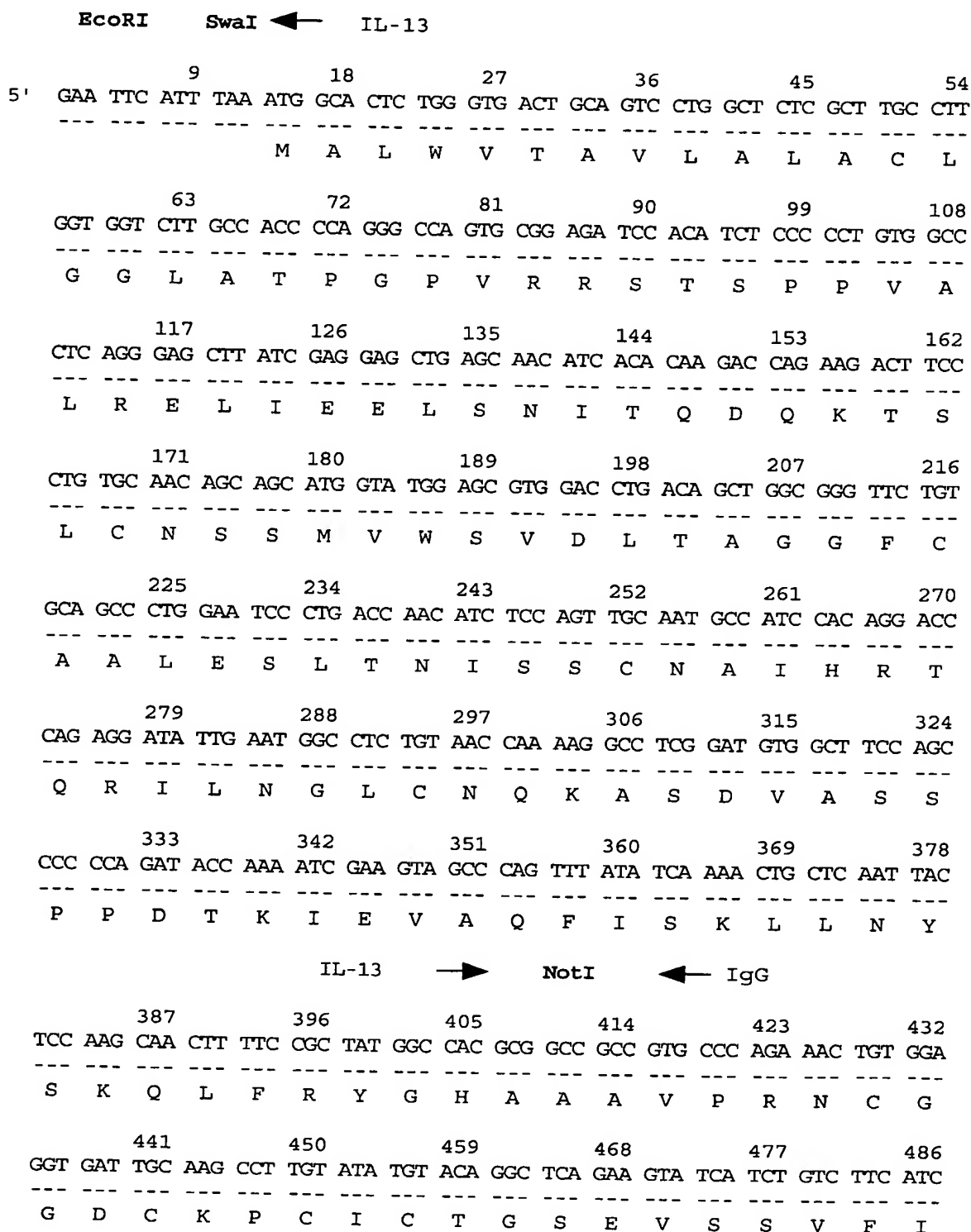


Fig. 12

11/21

495	504	513	522	531	540
TTC CCC CCA AAG CCC	AAA GAT GTG	CTC ACC ATC ACT	CTG ACT CCT AAG	GTC AC	
F P P K P	K D V L T	I T L T P	K V T		
549	558	567	576	585	594
TGT GTT GTG GTA GAC	ATT AGC CAG	GAC GAT CCC	GAG GTC CAT TTC	AGC TGG	TTT
C V V V D	I S Q D D	P E V H F	S W F		
603	612	621	630	639	648
GTA GAT GAC GTG GAA	GTC CAC ACA	GCT CAG ACT	CGA CCA CCA	GAG GAG	CAG TTC
V D D V E	V H T A Q	T R P P E	E Q F		
657	666	675	684	693	702
AAC AGC ACT TTC CGC	TCA GTC AGT	GAA CTC CCC	ATC CTG CAC	CAG GAC	TGG CTC
N S T F R	S V S E L	P I L H Q	D W L		
711	720	729	738	747	756
AAT GGC AGG ACG TTC	AGA TGC AAG	GTC ACC AGT	GCA GCT TTC	CCA TCC	CCC ATC
N G R T F	R C K V T	S A A F P	S P I		
765	774	783	792	801	810
GAG AAA ACC ATC TCC	AAA CCC GAA	GGC AGA ACA	CAA GTT CCG	CAT GTA	TAC ACC
E K T I S	K P E G R	T Q V P H	V Y T		
819	828	837	846	855	864
ATG TCA CCT ACC AAG	GAA GAG ATG	ACC CAG AAT	GAA GTC AGT	ATC ACC	TGC ATG
M S P T K	E E M T Q	N E V S I	T C M		
873	882	891	900	909	918
GTA AAA GGC TTC TAT	CCC CCA GAC	ATT TAT GTG	GAG TGG CAG	ATG AAC	GGG CAG
V K G F Y	P P D I Y	V E W Q M	N G Q		
927	936	945	954	963	972
CCA CAG GAA AAC TAC	AAG AAC ACT	CCA CCT ACG	ATG GAC ACA	GAT GGG	AGT TAC
P Q E N Y	K N T P P	T M D T D	G S Y		
981	990	999	1008	1017	1026
TTC CTC TAC AGC AAG	CTC AAT GTG	AAG AAG GAA	AAA TGG CAG	CAG GGA	AAC ACG
F L Y S K	L N V K K	E K W Q Q	G N T		
1035	1044	1053	1062	1071	1080
TTC ACG TGT TCT GTG	CTG CAT GAA	GGC CTG CAC	AAC CAC CAT	ACT GAG	AAG AGT
F T C S V	L H E G L	H N H H T	E K S		

Fig. 13

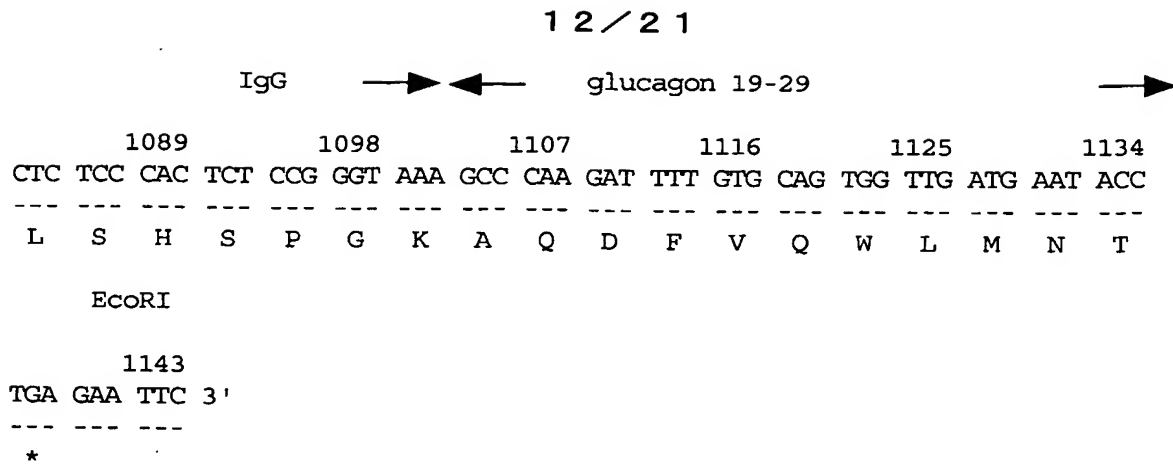


Fig. 14

13/21

File Name : SP-IgG-glu-19-29

Range : 1 - 825 Mode : Normal

Codon Table : Universal

	EcoRI			SwaI			←			Signal peptide of SLPI																																			
	9			18			27			36			45			54																													
5'	GAA	TTC	ATT	TAA	ATG	AAG	TCC	TGC	GGC	CTG	TTC	CCT	CTC	ATG	GTG	CTC	CTT	GCT																											
	---			---			---			---			---			---			---																										
				M			K			S			C			G			L			F			P			L			M			V			L			L			A		

Fig. 16

15/21

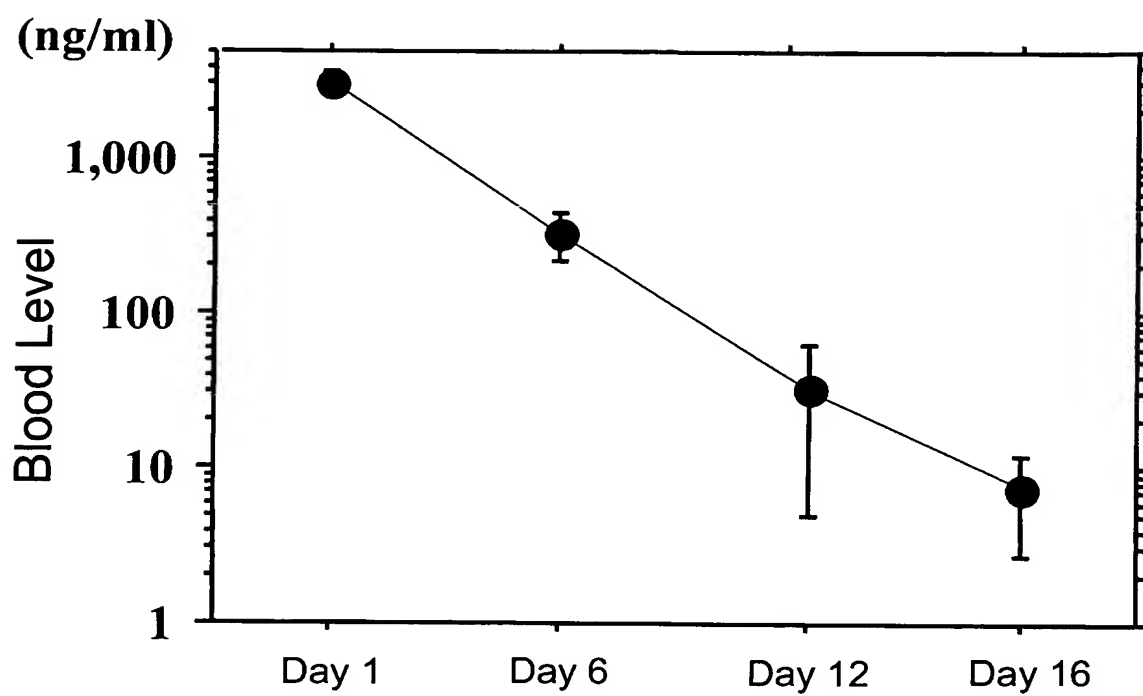


Fig. 17

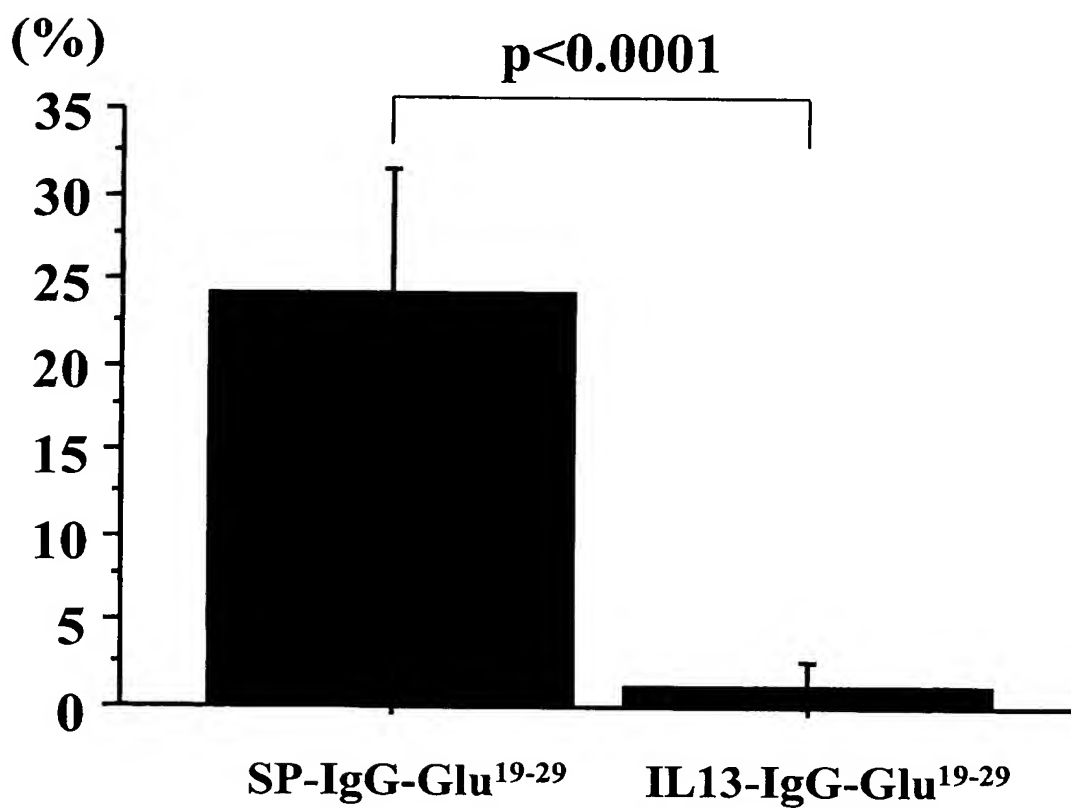


Fig. 18

16/21

File Name : IL1RA-IgG-glu19-29
 Range : 1 - 1284 Mode : Normal
 Codon Table : Universal

	EcoRI				SwaI ←		IL-1RA																	
	9				18				27				36				45				54			
5'	GAA	TTC	ATT	TAA	ATG	GAA	ATC	TGC	TGG	GGA	CCC	TAC	AGT	CAC	CTA	ATC	TCT	CTC						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
					M	E	I	C	W	G	P	Y	S	H	L	I	S	L						
	63				72				81				90				99				108			
	CTT	CTC	ATC	CTT	CTG	TTT	CAT	TCA	GAG	GCA	GCC	TGC	CGC	CCT	TCT	GGG	AAA	AGA						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	L	L	I	L	L	F	H	S	E	A	A	C	R	P	S	G	K	R						
	117				126				135				144				153				162			
	CCC	TGC	AAG	ATG	CAA	GCC	TTC	AGA	ATC	TGG	GAT	ACT	AAC	CAG	AAG	ACC	TTT	TAC						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	P	C	K	M	Q	A	F	R	I	W	D	T	N	Q	K	T	F	Y						
	171				180				189				198				207				216			
	CTG	AGA	AAC	AAC	CAG	CTC	ATT	GCT	GGG	TAC	TTA	CAA	GGA	CCA	AAT	ATC	AAA	CTA						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	L	R	N	N	Q	L	I	A	G	Y	L	Q	G	P	N	I	K	L						
	225				234				243				252				261				270			
	GAA	GAA	AAG	ATA	GAC	ATG	GTG	CCT	ATT	GAC	CTT	CAT	AGT	GTG	TTC	TTG	GGC	ATC						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	E	E	K	I	D	M	V	P	I	D	L	H	S	V	F	L	G	I						
	279				288				297				306				315				324			
	CAC	GGG	GGC	AAG	CTG	TGC	CTG	TCT	TGT	GCC	AAG	TCT	GGA	GAT	GAT	ATC	AAG	CTC						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	H	G	G	K	L	C	L	S	C	A	K	S	G	D	D	I	K	L						
	333				342				351				360				369				378			
	CAG	CTG	GAG	GAA	GTT	AAC	ATC	ACT	GAT	CTG	AGC	AAG	AAC	AAA	GAA	GAA	GAC	AAG						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	Q	L	E	E	V	N	I	T	D	L	S	K	N	K	E	E	D	K						
	387				396				405				414				423				432			
	CGC	TTT	ACC	TTC	ATC	CGC	TCT	GAG	AAA	GGC	CCC	ACC	ACC	AGC	TTT	GAG	TCA	GCT						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	R	F	T	F	I	R	S	E	K	G	P	T	T	S	F	E	S	A						
	441				450				459				468				477				486			
	GCC	TGT	CCA	GGA	TGG	TTC	CTC	TGC	ACA	ACA	CTA	GAG	GCT	GAC	CGT	CCT	GTG	AGC						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	A	C	P	G	W	F	L	C	T	T	L	E	A	D	R	P	V	S						

Fig. 19

17/21

IL-1RA

CTC	ACC	495	AAC	ACA	CCG	504	GAA	GAG	CCC	513	CTT	ATA	GTC	522	ACG	AAG	TTC	531	TAC	TTC	CAG	540	GAA		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
L	T	N	T	P	E	E	P	L	I	V	T	K	F	Y	F	Q	E								
		→ NotI				←				IgG															
GAC	CAA	549	GCG	GCC	GCC	558	GTG	CCC	AGA	567	AAC	TGT	GGA	576	GGT	GAT	TGC	585	AAG	CCT	TGT	594	ATA		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
D	Q	A	A	A	V	P	R	N	C	G	G	D	C	K	P	C	I								
TGT	ACA	603	GGC	TCA	GAA	612	GTA	TCA	TCT	621	GTC	TTC	ATC	630	TTC	CCC	CCA	639	AAG	CCC	AAA	648	GAT		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
C	T	G	S	E	V	S	S	V	F	I	F	P	P	K	P	K	D								
GTG	CTC	657	ACC	ATC	ACT	666	CTG	ACT	CCT	675	AAG	GTC	ACG	684	TGT	GTT	GTG	693	GTA	GAC	ATT	702	AGC		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
V	L	T	I	T	L	T	P	K	V	T	C	V	V	V	V	D	I	S							
CAG	GAC	711	GAT	CCC	GAG	720	GTC	CAT	TTC	729	AGC	TGG	TTT	738	GTA	GAT	GAC	747	GTG	GAA	GTC	756	CAC		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Q	D	D	P	E	V	H	F	S	W	F	V	D	D	V	E	V	H								
ACA	GCT	765	CAG	ACT	CGA	774	CCA	CCA	GAG	783	GAG	CAG	TTC	792	AAC	AGC	ACT	801	TTC	CGC	TCA	810	GTC		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
T	A	Q	T	R	P	P	E	E	Q	F	N	S	T	F	R	S	V								
AGT	GAA	819	CTC	CCC	ATC	828	CTG	CAC	CAG	837	GAC	TGG	CTC	846	AAT	GGC	AGG	855	ACG	TTC	AGA	864	TGC		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
S	E	L	P	I	L	H	Q	D	W	L	N	G	R	T	F	R	C								
AAG	GTC	873	ACC	AGT	GCA	882	GCT	TTC	CCA	891	TCC	CCC	ATC	900	GAG	AAA	ACC	909	ATC	TCC	AAA	918	CCC		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
K	V	T	S	A	A	F	P	S	P	I	E	K	T	I	S	K	P								
GAA	GGC	927	AGA	ACA	CAA	936	GTT	CCG	CAT	945	GTA	TAC	ACC	954	ATG	TCA	CCT	963	ACC	AAG	GAA	972	GAG		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
E	G	R	T	Q	V	P	H	V	Y	T	M	S	P	T	K	E	E								
ATG	ACC	981	CAG	AAT	GAA	990	GTC	AGT	ATC	999	ACC	TGC	ATG	1008	GTA	AAA	GGC	1017	TTC	TAT	CCC	1026	CCA		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
M	T	Q	N	E	V	S	I	T	C	M	V	K	G	F	Y	P	P								

Fig. 20

18/21

1035	1044	1053	1062	1071	1080
GAC ATT TAT GTG GAG TGG CAG ATG AAC GGG CAG CCA CAG GAA AAC TAC AAG AAC					
-----	-----	-----	-----	-----	-----
D I Y V E W Q M N G Q P Q E N Y K N					
1089	1098	1107	1116	1125	1134
ACT CCA CCT ACG ATG GAC ACA GAT GGG AGT TAC TTC CTC TAC AGC AAG CTC AAT					
-----	-----	-----	-----	-----	-----
T P P T M D T D G S Y F L Y S K L N					
1143	1152	1161	1170	1179	1188
GTG AAG AAG GAA AAA TGG CAG CAG GGA AAC ACG TTC ACG TGT TCT GTG CTG CAT					
-----	-----	-----	-----	-----	-----
V K K E K W Q Q G N T F T C S V L H					
IgG →					
1197	1206	1215	1224	1233	1242
GAA GGC CTG CAC AAC CAC CAT ACT GAG AAG AGT CTC TCC CAC TCT CCG GGT AAA					
-----	-----	-----	-----	-----	-----
E G L H N H H T E K S L S H S P G K					
← glucagon 19-29 →					
1251	1260	1269	1278		
GCC CAA GAT TTT GTG CAG TGG TTG ATG AAT ACC TGA GAA TTC 3'					
-----	-----	-----	-----	-----	-----
A Q D F V Q W L M N T *					

Fig. 21

19/21

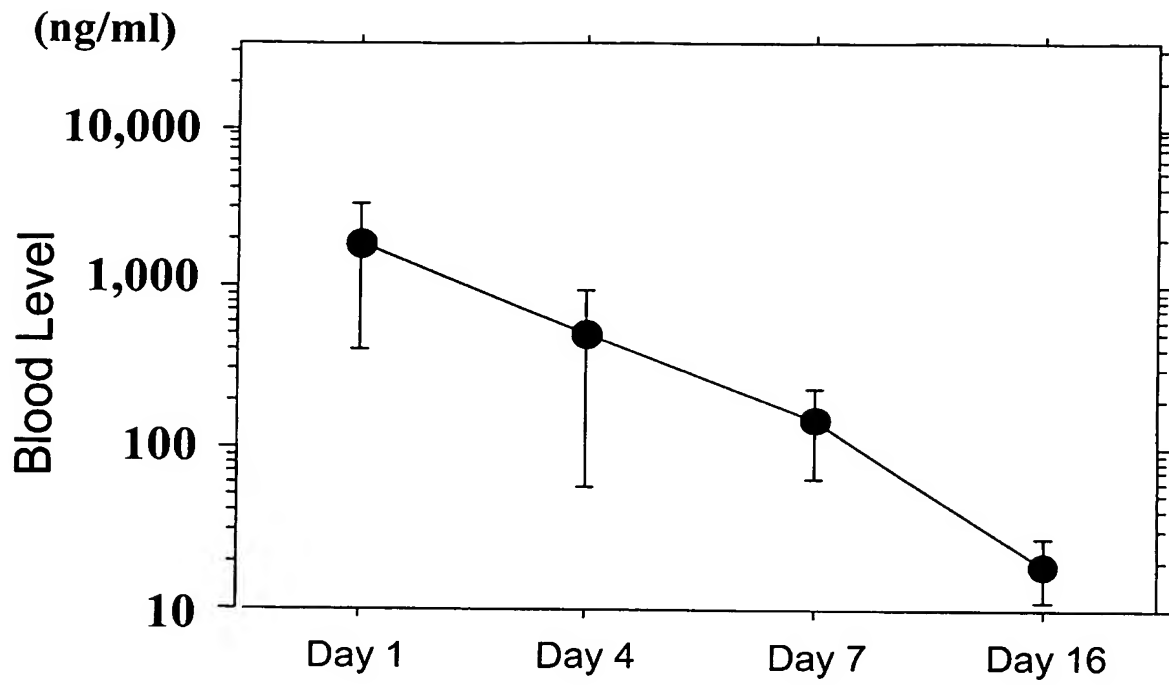


Fig. 22

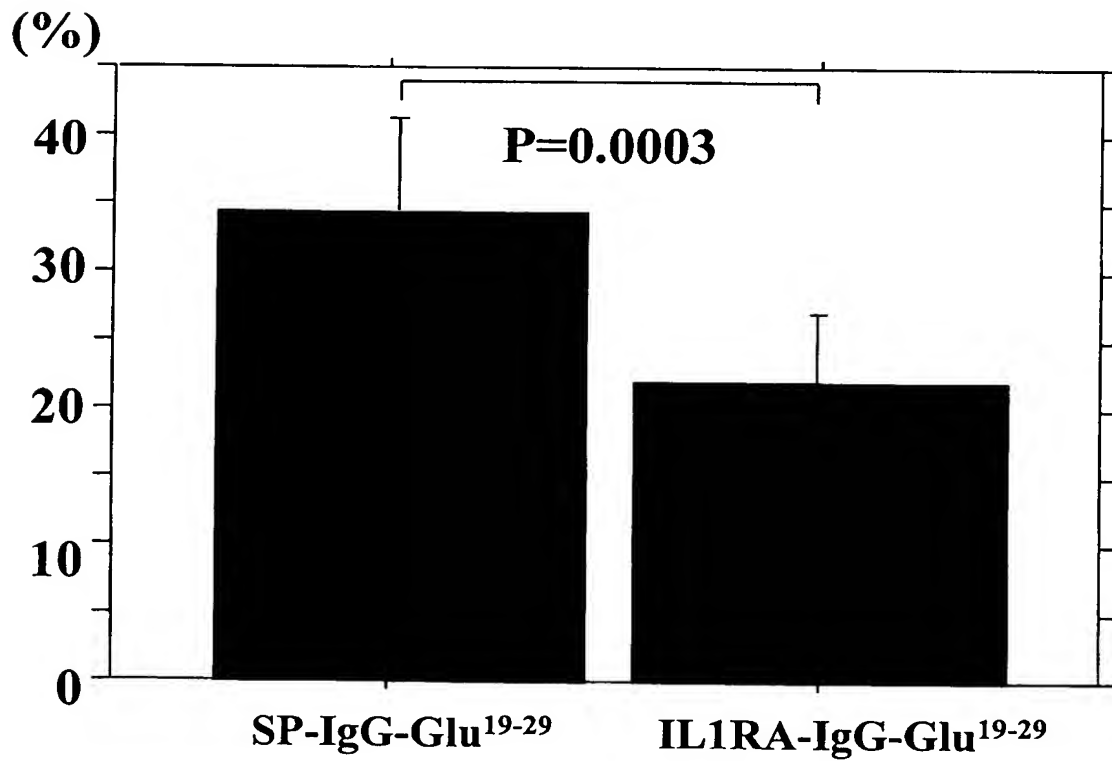


Fig. 23

20/21

File Name : IL8-glu 19-29

Range : 1 - 369 Mode : Normal

Codon Table : Universal

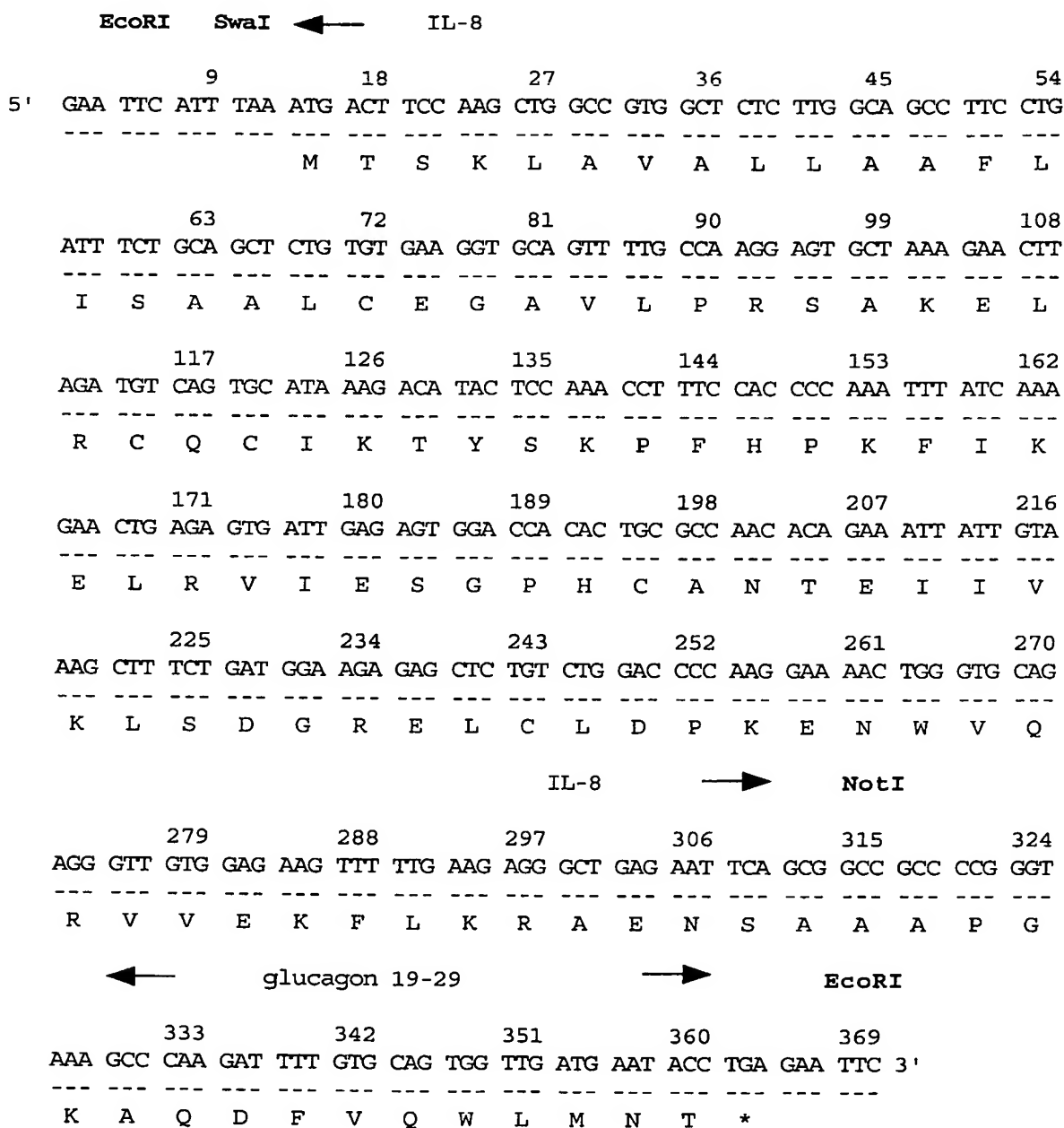


Fig. 24

21/21

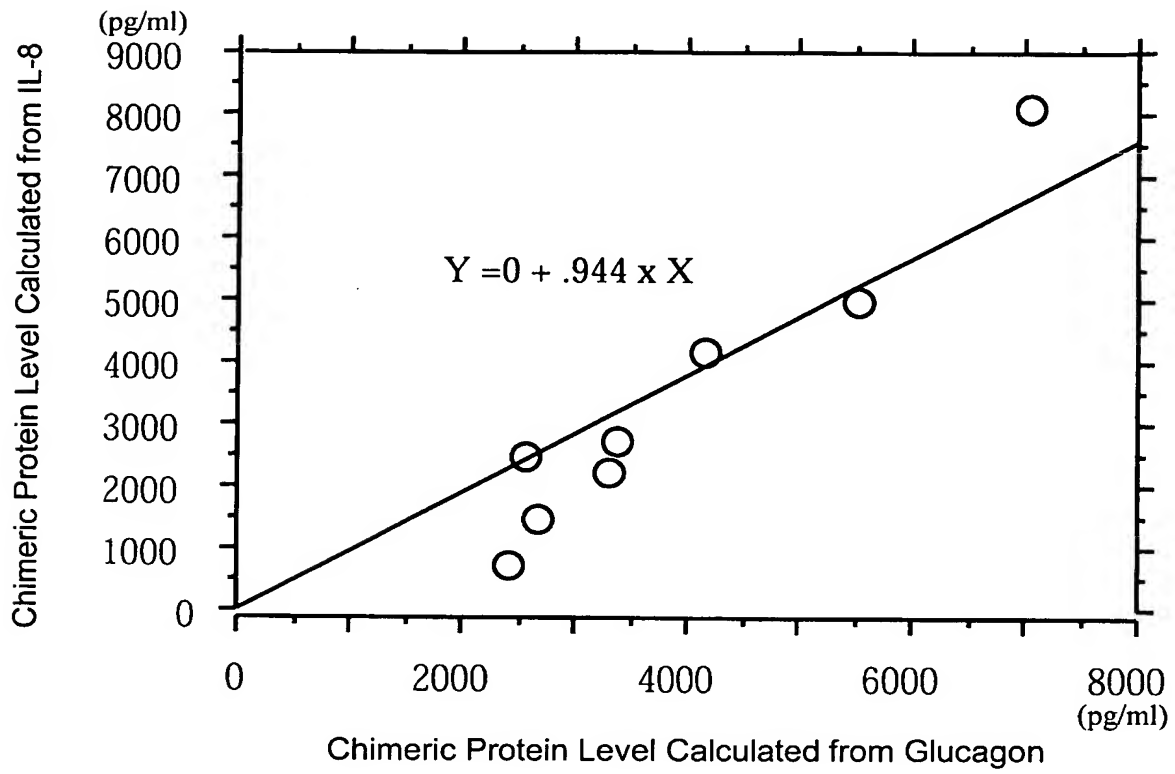


Fig. 25